

VERSION WITH CHANGES MARKED-UP

In the specification:

Paragraph beginning at line 16 of page 10 has been amended as follows:

In this manner, the table data may be reconstructed while other tables can be accessed in a "read only" mode. Furthermore, each table and the ~~table-space~~ tablespace is returned to the configuration that was present prior to the corruption of the data in the affected table.

Paragraph beginning at line 3 of page 13 has been amended as follows:

In operation, the method 300-of Fig. 3 is used to recover a table after the table data has been corrupted without requiring tablespace from which the table depended on to be recovered. The Mmethod 300-of Fig. 3 allows access to other tables of tablespace 10 without requiring those tables to be rebuilt. The Mmethod 300-of Fig. 3 also optimizes the table recovery process by sorting the log records, such that input/output operations to tablespace 10 are optimized during the table recovery process.

In the claims:

Please amend claims 1-6, 12 and 17-19 as follows.

--1. (Twice Amended) A system for recovering a database table comprising:

a table recovery system, the table recovery system operable to retrieve a backup copy of a tablespace and to apply updates to the backup copy from a log, ~~the table recovery system restoring and to restore a database table in the tablespace from the updated backup copy having log updates without having to restore other portions of~~ modifying the configuration of the tablespace; and

a tablespace access system coupled to the table recovery system, wherein the tablespace access system is operable to restrict access to the tablespace to read-only access.

2. (Once Amended) The system of claim 1 wherein the table recovery system further comprises a log record sorter system operable to sort log records from a the log ~~record file~~.

3. (Once Amended) The system of claim 2 further comprising:  
a data page updater system coupled to the log record sorter system operable to apply the log record updates to a ~~data page~~ the backup copy.

4. (Once Amended) The system of claim 3 further comprising:  
a data page scanner system coupled to the data page updater system, the data page scanner system operable to locate ~~records~~ page rows associated with a the database table in a at least one data page.

5. (Once Amended) The system of claim 4 further comprising:  
a page row extractor system coupled to the data page scanner system operable to extract the page rows from a the at least one data page that has been located by the data page scanner system.

6. (Once Amended) The system of claim 5 further comprising:  
a table row inserter system coupled to the page row extractor system operable to write the extracted page rows to the database table.

12. (Twice Amended) A method of recovering a first database table that depends on a tablespace, said method comprising:  
receiving a backup copy of a tablespace having one or more database tables;  
reading log records associated with a first database table in the one or more database tables;

applying the log records to the backup copy without  
modifying the configuration of the tablespace;

building new table data pages from the backup copy;

scanning the new table data pages for records of the first  
database table; and

updating the first database table from the records.

17. (Once Amended) A method for recovering a database table  
that depends on a tablespace, said method comprising:

receiving a backup copy of a tablespace having one or more  
database tables;

reading log records associated with a first database table  
in the one or more database tables;

applying the log records to the backup copy without  
modifying the configuration of the tablespace;

building one or more table data pages from the backup copy  
having the log records applied;

selecting one or more records from the one or more database  
table data pages, the one or more records belonging to the first  
database table; and

updating the first database table with the one or more  
records selected from the one or more table data pages, while  
allowing access to rest of the one or more database tables in  
the tablespace,

wherein the first database table can be recovered without having to recover the tablespace entirely.

18. (Once Amended) The method of claim 17, further comprising:

allowing said at least one of the one or more database tables to have update access to the tablespace when the first database table is restored.

19. (Once Amended) The method of claim 17, further comprising:

deleting all rows of the first database table; and  
locking out access to ~~indexes~~ indices of the first database table.--

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Christopher F. Parker  
Serial No.: 09/349,198  
Title: DATABASE TABLE RECOVERY SYSTEM  
Filing Date: July 7, 1999  
Art Unit: 3624  
Examiner: E. Colbert

I hereby certify that this correspondence is being facsimile transmitted to Examiner Ella Colbert, Group Art Unit 3624, at the USPTO at 703-305-7687 on the below date.



Frank M. Gasparo, Reg. No. 44,700

November 18, 2002  
Date

LETTER WITH PROPOSED DRAWING CHANGES

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants hereby propose to amend the drawings in the above-identified application as indicated in red on the copy submitted herewith.

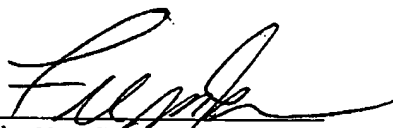
More specifically, Applicants have amended: Fig. 2 by changing "Backup Copy System" to --Tablespace Backup Storage--.

Upon approval of the herein-proposed drawing changes and the issuance of a Notice of Allowance, Applicants will promptly attend to correcting the formal drawings in accordance

with present Office practices.

Respectfully submitted,

Date: November 18, 2002

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